# **NCBI Virus**

Curated collection of viral sequences and related tools

### ncbi.nlm.nih.gov/genome/viruses/

The Viral Genomes page is a hub connecting to all of NCBI Virus's supported resources and documentation, as well as other related NCBI resources. It includes all complete viral genome sequences deposited in the International Nucleotide Sequence Database Collaboration (INSDC) databases.



**7,536** RefSeq genomes

**146,658** validated neighbor sequences

### Our process

Researchers submit to NCBI and other INSDS databases

**Viruses** 

**Proviruses** 

**Satellites** 

**Viroids** 





### All sequences in INSDC databases

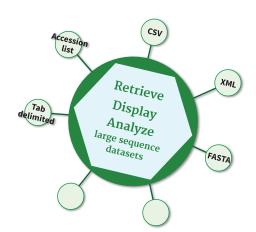
#### RefSeq

Reference sequence records from one (in some cases more) comp lete genome sequence for each viral species.

#### **Neighbors**

Other complete genomes from that same species.

# Virus Variation ncbi.nlm.nih.gov/genome/viruses/variation/



Each module is supported by pipelines that scan newly released GenBank records, annotate genes and proteins and parse sample descriptors and then map them to controlled vocabulary. These processes in turn support a purpose-built search

interface where users can select sequences based on standardized gene, protein and metadata terms. Once sequences are selected, a suite of tools for downloading data, multi-sequence alignment and tree building supports a variety of user directed activities.

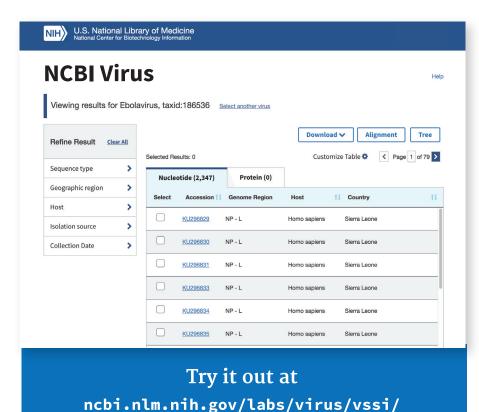
influenzaviruses dengue viruses rotavirus A Zika virus ebolaviruses West Nile virus MERS coronavirus

Need help? Have suggestions? Contact us at

info@ncbi.nlm.nih.gov with subject: viral genomes resource



## What's on the horizon for NCBI Virus?



# New, integrated virus resource!

NCBI Virus resources are currently being redesigned to extend current functionalities to all virus groups and viroids. Additionally, the newly developed interface provides more intuitive functionality via a modernized look and feel. Try it out and let us know what you think!

- Normalized host and isolation source terms
- Specialized search, alignment and tree-building tools
- Validated full-length genomes and references
- Standardized gene and protein annotation for select viral pathogens

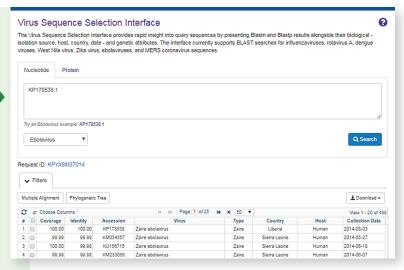


Introducing at NCBI Labs...

**Virus Sequence Selection Interface** 

### ncbi.nlm.nih.gov/labs/virus/surveillance#!/

Provides rapid insight into query sequences by presenting Blastn and Blastp results alongside their biological and genetic attributes. Virus Sequence Selection Interface currently supports BLAST searches for following popular virus groups: influenzaviruses, rotavirus A, dengue viruses, West Nile virus, Zika virus, ebolaviruses, and MERS coronavirus sequences



## Want to help?

Send us your feedback! Volunteer to test our new designs!

Send an email to <a href="mailto:info@ncbi.nlm.nih.gov">info@ncbi.nlm.nih.gov</a> with subject "NCBI Virus - testing".

